

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

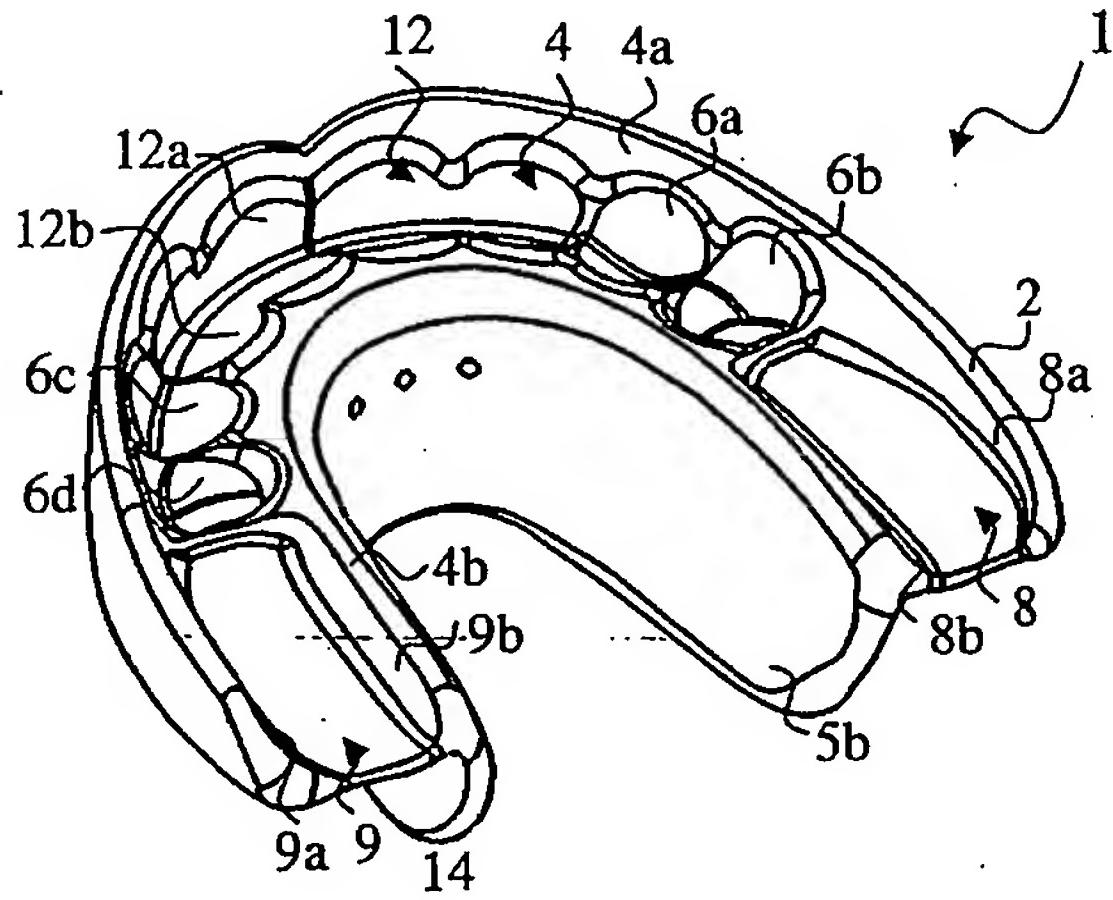
PCT

(10) International Publication Number
WO 2005/002460 A1

- (51) International Patent Classification⁷: **A61C 7/08**
- (21) International Application Number: **PCT/FI2004/000434**
- (22) International Filing Date: **7 July 2004 (07.07.2004)**
- (25) Filing Language: **Finnish**
- (26) Publication Language: **English**
- (30) Priority Data:
20031038 7 July 2003 (07.07.2003) FI
- (71) Applicant (*for all designated States except US*): **LM-INSTRUMENTS OY [FI/FI]; PL 88, FI-21601 Parainen (FI).**
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **KESKI-NISULA, Katri [FI/FI]; Rantakatu 11 A 14, FI-65100 Vaasa (FI). VARRELA, Juha [FI/FI]; Piispankatu 1, FI-20500 Turku (FI).**
- (74) Agent: **SEppo LAINE OY; Itämerenkatu 3 B, FI-00180 Helsinki (FI).**
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:**
- *with international search report*
 - *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

[Continued on next page]

(54) Title: **ORTHODONTIC ACTIVATOR**



(57) Abstract: An odontological device and device series to guide an individual's occlusion and a method to be used in selecting an occlusion guidance appliance device to be used in orthodontic treatment. This kind of device contains a U-shaped arch with a lower surface on the side of the lower jaw and a higher surface on the side of the upper jaw, and in both of which there are concaves in which to place the individual's teeth, and where the bottoms of the concaves form of the isthmus separating the concaves from one another. According to the invention, the isthmus includes blanks meant for individual teeth and uniform, continuous hollows meant for at least two teeth to guide the teeth in the required direction, and the lower jaw side surface has a lower wing constricting the tongue at least sideways, and it helps the device to remain in place in the individual's mouth. The blanks position the device at the teeth and the dental arch, the compartments reduce the problems caused by twisted teeth when inserting the device in the mouth for example and the lower wings help to keep the device in place.

WO 2005/002460 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.